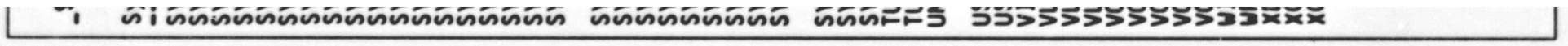

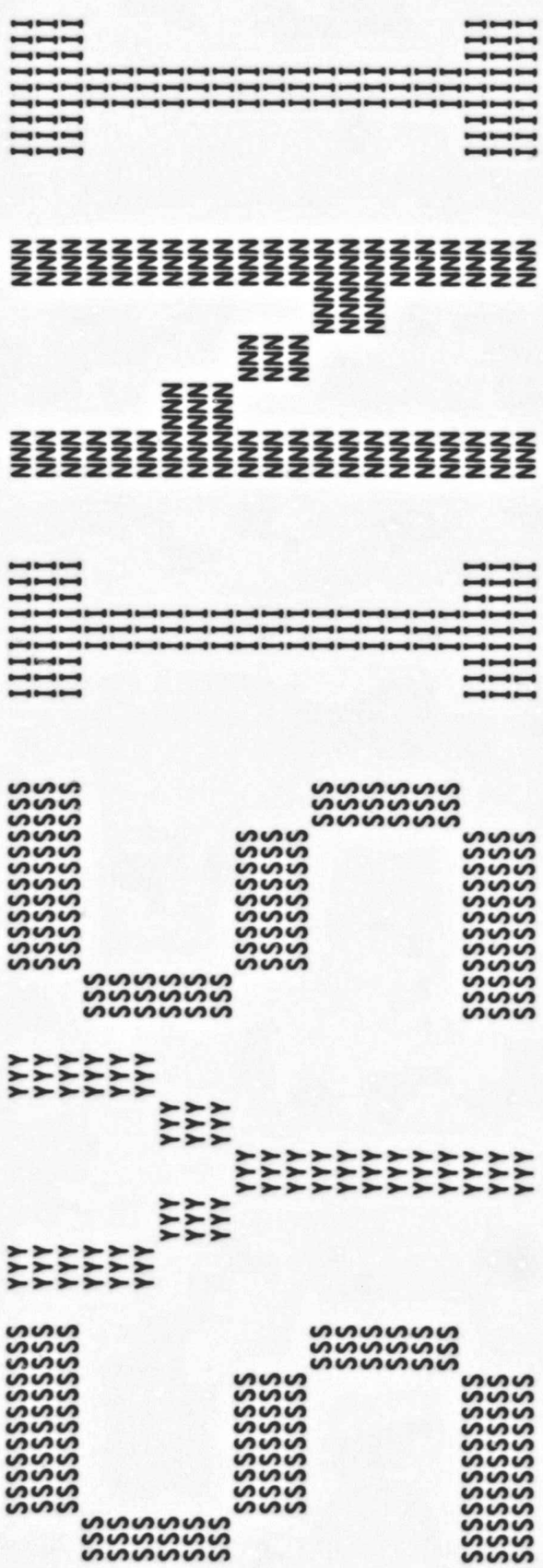

J 13

```
  SSSSSSSS  YY      YY   SSSSSSSS  MM      MM   OOOOOO    UU      UU
  SSSSSSSS  YY      YY   SSSSSSSS  MM      MM   OOOOOO    UU      UU
SS          YY      YY SS          MMMM  MMMM OO      OO  UU      UU
SS          YY      YY SS          MMMM  MMMM OO      OO  UU      UU
SS            YY  YY   SS          MM MM MM MM OO      OO  UU      UU
SS            YY  YY   SS          MM MM MM MM OO      OO  UU      UU
  SSSSSS        YY       SSSSSS    MM    MM MM OO      OO  UU      UU
  SSSSSS        YY       SSSSSS    MM    MM MM OO      OO  UU      UU
        SS      YY             SS  MM    MM MM OO      OO  UU      UU
        SS      YY             SS  MM    MM MM OO      OO  UU      UU
        SS      YY             SS  MM    MM MM OO      OO  UU      UU
        SS      YY             SS  MM    MM MM OO      OO  UU      UU
SSSSSSSS        YY     SSSSSSSS   MM    MM   OOOOOO    UUUUUUUUUU
SSSSSSSS        YY     SSSSSSSS   MM    MM   OOOOOO    UUUUUUUUUU

LL              IIIIII     SSSSSSSS
LL              IIIIII     SSSSSSSS
LL                II     SS
LL                II     SS
LL                II     SS
LL                II     SS
LL                II       SSSSSS
LL                II       SSSSSS
LL                II             SS
LL                II             SS
LL                II             SS
LL                II             SS
LLLLLLLLLL      IIIIII   SSSSSSSS
LLLLLLLLLL      IIIIII   SSSSSSSS
```

```
;      1     0001  0 MODULE SYSMOU (
;      2     0002  0                 LANGUAGE (BLISS32),
;      3     0003  0                 IDENT = 'V04-000'
;      4     0004  0                 ) =
;      5     0005  1 BEGIN
;      6     0006  1
;      7     0007  1 !
;      8     0008  1 !**************************************************************************
;      9     0009  1 !*                                                                        *
;     10     0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                               *
;     11     0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
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;     20     0020  1 !*                                                                        *
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;     22     0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
;     23     0023  1 !*  CORPORATION.                                                           *
;     24     0024  1 !*                                                                        *
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;     26     0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
;     27     0027  1 !*                                                                        *
;     28     0028  1 !*                                                                        *
;     29     0029  1 !**************************************************************************
;     30     0030  1
;     31     0031  1 !++
;     32     0032  1 !
;     33     0033  1 ! FACILITY:  MOUNT Utility Structure Levels 1 & 2
;     34     0034  1 !
;     35     0035  1 ! ABSTRACT:
;     36     0036  1 !
;     37     0037  1 !       This module contains the code and data needed to mount the system
;     38     0038  1 !       disk during system initialization.
;     39     0039  1 !
;     40     0040  1 ! ENVIRONMENT:
;     41     0041  1 !
;     42     0042  1 !       STARLET operating system, including privileged system services
;     43     0043  1 !       and internal exec routines.
;     44     0044  1 !
;     45     0045  1 !--
;     46     0046  1 !
;     47     0047  1 !
;     48     0048  1 ! AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  1-Nov-1977  19:02
;     49     0049  1 !
;     50     0050  1 ! MODIFIED BY:
;     51     0051  1 !
;     52     0052  1 !       V03-010 CDS0005         Christian D. Saether    29-Aug-1984
;     53     0053  1 !               Use STAND_ALONE_REBUILD routine to avoid unnecessary
;     54     0054  1 !               rebuilds.
;     55     0055  1 !
;     56     0056  1 !       V03-009 CDS0004         Christian D. Saether     2-Aug-1984
;     57     0057  1 !               Test the sysgen flag REBLDSYSD to determine whether
```

```
;    58          0058  1 !                 rebuild should be performed.
;    59          0059  1 !
;    60          0060  1 !           V03-008 HH0041          Hai Huang                   24-Jul-1984
;    61          0061  1 !                   Remove REQUIRE 'OBJD$:[VMSLIB.OBJ]MOUNTMSG.REQ'.
;    62          0062  1 !
;    63          0063  1 !           V03-007 HH0018          Hai Huang                   06-May-1984
;    64          0064  1 !                   Use $GETDVI to obtain the physical device name of the
;    65          0065  1 !                   system device.
;    66          0066  1 !
;    67          0067  1 !           V03-006 TMH0006         Tim Halvorsen               14-Apr-1984
;    68          0068  1 !                   Add MOUNT_FLAGS to list of dummy storage needed for
;    69          0069  1 !                   linked-in-MOUNT.
;    70          0070  1 !
;    71          0071  1 !           V03-005 CDS0003         Christian D. Saether        19-Oct-1983
;    72          0072  1 !                   Now that volume rebuild works, allow FID and EXT caching.
;    73          0073  1 !
;    74          0074  1 !           V03-004 TCM0001         Trudy C. Matthews           19-Aug-1983
;    75          0075  1 !                   Interlock mounts of the system disk with other potential
;    76          0076  1 !                   mounters of the same disk in the cluster.  Add cluster
;    77          0077  1 !                   consistency checking routines.
;    78          0078  1 !
;    79          0079  1 !           V03-003 CDS0002         Christian D. Saether        15-Aug-1983
;    80          0080  1 !                   Set OPT_NOEXT_C, OPT_NOFID_C, OPT_NOQUO_C, and OPT_WTHRU
;    81          0081  1 !                   to REALLY disable caching.
;    82          0082  1 !
;    83          0083  1 !           V03-002 CDS0001         Christian D. Saether         5-Aug-1983
;    84          0084  1 !                   Temporarily disable caching on system disk until
;    85          0085  1 !                   xqp cluster rebuild works.
;    86          0086  1 !
;    87          0087  1 !           V03-001 STJ3061         Steven T. Jeffreys,         04-Mar-1983
;    88          0088  1 !                   Added definitions of DEVICE_INDEX and CALLERS_ACMOD.
;    89          0089  1 !                   These parallel definitions in VMOUNT.
;    90          0090  1 !
;    91          0091  1 !           V02-008 STJ0202         Steven T. Jeffreys,         05-Feb-1982
;    92          0092  1 !                   Make sure the OPT_MOUNTVER bit gets set.  The first
;    93          0093  1 !                   attempt at this ended in disaster.
;    94          0094  1 !
;    95          0095  1 !           V02-007 STJ0175         Steven T. Jeffreys,         06-Jan-1982
;    96          0096  1 !                   Set up the database to ensure the system disk
;    97          0097  1 !                   is a candidate for mount verification.
;    98          0098  1 !
;    99          0099  1 !           V02-006 ACG0248         Andrew C. Goldstein,        31-Dec-1981  16:56
;   100          0100  1 !                   Use default logical name, fix use of $GETDEV
;   101          0101  1 !
;   102          0102  1 !           V02-005 ACG0181         Andrew C. Goldstein,        13-Oct-1980  15:37
;   103          0103  1 !                   Fix cross facility references
;   104          0104  1 !
;   105          0105  1 !           V0104   ACG0123         Andrew C. Goldstein,        12-Feb-1980  18:23
;   106          0106  1 !                   Integrate disk rebuild into MOUNT
;   107          0107  1 !
;   108          0108  1 !           V0103   ACG0079         Andrew C. Goldstein,        11-Nov-1979  19:32
;   109          0109  1 !                   MOUNT changes for write-back cacheing
;   110          0110  1 !
;   111          0111  1 !           V0102   ACG0072         Andrew C. Goldstein,        22-Oct-1979  13:53
;   112          0112  1 !                   Check primary and secondary device char
;   113          0113  1 !
;   114          0114  1 !           V101    ACG0003         Andrew C. Goldstein,  28-Dec-1978  15:23
```

```
;  115     0115  1 !       Add global variables for multi-volume MOUNT
;  116     0116  1 !
;  117     0117  1 !       V100    ACG0001         Andrew C. Goldstein,  28-Dec-1978  15:22
;  118     0118  1 !       Previous revision history moved to SYSINIT.REV
;  119     0119  1 !**
;  120     0120  1
;  121     0121  1
;  122     0122  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;  123     0123  1 REQUIRE 'LIB$:MOUDEF.B32';
;  124     0655  1
;  125     0656  1
;  126     0657  1 FORWARD ROUTINE
;  127     0658  1         MOUNT_SYSTEM,                   ! main routine
;  128     0659  1         MAIN_HANDLER;                   ! condition handler
```

```
;  130     0660  1 !+
;  131     0661  1 !
;  132     0662  1 ! Own storage for general use in the MOUNT utility
;  133     0663  1 !
;  134     0664  1 !-
;  135     0665  1
;  136     0666  1 GLOBAL
;  137     0667  1         STORED_CONTEXT  : BITVECTOR [32],! store the context of some 1 time only
;  138     0668  1         MOUNT_FLAGS     : LONG INITIAL(0), ! MOUNT flags
;  139     0669  1         LOCK_STATUS     : VECTOR [2],   ! Lock status block for $ENQ call
;  140     0670  1         DEVICE_INDEX    : LONG,         ! index into PHYS_NAME array
;  141     0671  1         CALLERS_ACMOD   : LONG,         ! caller's access mode
;  142     0672  1         CLEANUP_FLAGS   : BITVECTOR [32], ! error cleanup status flags
;  143     0673  1         CHANNEL,                        ! channel number for I/O
;  144     0674  1         MAILBOX_CHANNEL,                ! channel number of ACP termination mailbox
;  145     0675  1         PHYS_BUFFER     : VECTOR [20, BYTE],
;  146     0676  1                                         ! buffer to construct phys device name
;  147     0677  1         PHYS_NAME       : VECTOR [2]
;  148     0678  1                           INITIAL (0, PHYS_BUFFER), ! descriptor of physical device name
;  149     0679  1         LOG_BUFFER      : VECTOR [20, BYTE],
;  150     0680  1                                         ! buffer to construct logical name
;  151     0681  1         HOME_BLOCK      : BBLOCK [512], ! buffer for volume header label or home block
;  152     0682  1         DEVICE_CHAR     : BBLOCK [DIB$K_LENGTH],
;  153     0683  1                                         ! buffer for device characteristics
;  154     0684  1         DEVICE_CHAR2    : BBLOCK [DIB$K_LENGTH],
;  155     0685  1                                         ! buffer for 2nd device characteristics
;  156     0686  1         HOMEBLOCK_LBN,                  ! LBN of home block read
;  157     0687  1         HEADER_LBN,                     ! LBN of file header
;  158     0688  1         DEV_INDEX,                      ! index into device data table
;  159     0689  1         USER_STATUS     : VECTOR [2],   ! status return for various routines
;  160     0690  1         CURRENT_RVN,                    ! RVN of volume being mounted
;  161     0691  1         CURRENT_VCB     : REF BBLOCK,   ! address of VCB used by CHECK_HEADER2
;  162     0692  1         REAL_RVT        : REF BBLOCK,   ! address of RVT allocated for volume set
;  163     0693  1         REAL_VCB        : REF BBLOCK,   ! address of VCB allocated for volume
;  164     0694  1         REAL_FCB        : REF BBLOCK,   ! address of FCB allocated for volume
;  165     0695  1         REAL_WCB        : REF BBLOCK,   ! address of window allocated for volume
;  166     0696  1         REAL_VCA        : REF BBLOCK,   ! address of cache block allocated
;  167     0697  1         REAL_AQB        : REF BBLOCK,   ! address of AQB allocated for volume
;  168     0698  1         LOG_ENTRY       : REF BBLOCK,   ! address of logical name entry
;  169     0699  1         MTL_ENTRY       : REF BBLOCK,   ! address of mounted volume list entry
;  170     0700  1         SLOG_ENTRY      : REF BBLOCK,   ! address of volume set logical name entry
;  171     0701  1         SMTL_ENTRY      : REF BBLOCK,   ! address of volume set mounted volume list entry
;  172     0702  1
;  173     0703  1         DEVCHAR_DESC    : VECTOR [2] INITIAL (DIB$K_LENGTH, DEVICE_CHAR),
;  174     0704  1                                         ! descriptor for device characteristics
;  175     0705  1         DEVCHAR_DESC2   : VECTOR [2] INITIAL (DIB$K_LENGTH, DEVICE_CHAR2);
;  176     0706  1                                         ! descriptor for device characteristics
;  177     0707  1
;  178     0708  1
;  179     0709  1
;  180     0710  1 !+
;  181     0711  1 !
;  182     0712  1 ! The following area is a hand crafted mount parser output suitable for
;  183     0713  1 ! mounting the system disk.
;  184     0714  1 !
;  185     0715  1 !-
;  186     0716  1
```

```
;  187     0717  1 GLOBAL
;  188     0718  1         MOUNT_OPTIONS   : BITVECTOR [64] ! option flags
;  189     0719  1                         INITIAL (
;  190     0720  2                                 (1^OPT_SYSTEM OR        ! First 32 bits
;  191     0721  2                                  1^OPT_WRITE OR
;  192     0722  2                                  1^OPT_BLOCK OR
;  193     0723  2                                  1^OPT_OVR_ID OR
;  194     0724  2                                  1^OPT_DEVICE OR
;  195     0725  1                                  1^OPT_LABEL),
;  196     0726  2                                  (1^(OPT_MOUNTVER-32) OR        ! Last 32 bits
;  197     0727  2                                   1^(OPT_NOQUO_C-32) OR
;  198     0728  2                                   1^(OPT_WTHRU-32))
;  199     0729  1                                 ),
;  200     0730  1
;  201     0731  1         PROTECTION      : INITIAL (0),  ! value of /PROTECTION switch
;  202     0732  1         OWNER_UIC       : INITIAL (0),  ! value of /OWNER_UIC switch
;  203     0733  1         USER_DIC        : INITIAL (0),  ! value of /USER_DIC switch
;  204     0734  1         EXTENSION       : INITIAL (0),  ! value of /EXTENSION switch
;  205     0735  1         WINDOW          : INITIAL (0),  ! value of /WINDOW switch
;  206     0736  1         ACCESSED        : INITIAL (0),  ! value of /ACCESSED switch
;  207     0737  1         BLOCKSIZE       : INITIAL (0),  ! value of /BLOCK switch
;  208     0738  1         EXT_CACHE       : INITIAL (0),  ! value of /CACHE=(EXTENT=n) switch
;  209     0739  1         FID_CACHE       : INITIAL (0),  ! value of /CACHE=(FILE=n) switch
;  210     0740  1         QUO_CACHE       : INITIAL (0),  ! value of /CACHE=(QUOTA=n) switch
;  211     0741  1         EXT_LIMIT       : INITIAL (0),  ! value of /CACHE=(LIMIT=n) switch
;  212     0742  1         DEVICE_COUNT    : INITIAL (1),  ! number of devices specified
;  213     0743  1         LABEL_COUNT     : INITIAL (1),  ! number of volume labels specified
;  214     0744  1         LOG_NAME        : VECTOR [2],   ! logical name of system disk
;  215     0745  1         STRUCT_NAME     : VECTOR [2],   ! descriptor of structure name
;  216     0746  1         VID_STRING      : VECTOR [2],   ! descriptor of VISUAL_ID string
;  217     0747  1         COMMENT_STRING  : VECTOR [2],   ! descriptor of COMMENT string
;  218     0748  1         ACP_STRING      : VECTOR [2],   ! descriptor of ACP device or name string
;  219     0749  1         DRIVE_COUNT     : VECTOR [1],   ! value of /DRIVES switch
;  220     0750  1
;  221     0751  1         PARSE_IMP_END   : VECTOR [0];   ! end of data area
;  222     0752  1
;  223     0753  1 GLOBAL BIND
;  224     0754  1         LABEL_STRING    = DESCRIPTOR ('SYSTEMDISK') : VECTOR;
;  225     0755  1                                      ! dummy volume label of system disk
```

```
;   227     0756  1 GLOBAL ROUTINE MOUNT_SYSTEM (SYS_CHANNEL) =
;   228     0757  1
;   229     0758  1 !++
;   230     0759  1 !
;   231     0760  1 ! FUNCTIONAL DESCRIPTION:
;   232     0761  1 !
;   233     0762  1 !       This routine mounts the system disk (i.e., the disk to which the
;   234     0763  1 !       channel is assigned) and starts the ACP.
;   235     0764  1 !
;   236     0765  1 !
;   237     0766  1 ! CALLING SEQUENCE:
;   238     0767  1 !       MOUNT_SYSTEM (ARG1)
;   239     0768  1 !
;   240     0769  1 ! INPUT PARAMETERS:
;   241     0770  1 !       ARG1: channel number assigned to disk
;   242     0771  1 !
;   243     0772  1 ! IMPLICIT INPUTS:
;   244     0773  1 !       own storage of this module
;   245     0774  1 !
;   246     0775  1 ! OUTPUT PARAMETERS:
;   247     0776  1 !       NONE
;   248     0777  1 !
;   249     0778  1 ! IMPLICIT OUTPUTS:
;   250     0779  1 !       NONE
;   251     0780  1 !
;   252     0781  1 ! ROUTINE VALUE:
;   253     0782  1 !       1 if successful, assorted statuses if not
;   254     0783  1 !
;   255     0784  1 ! SIDE EFFECTS:
;   256     0785  1 !       system disk mounted, ACP started, logical name created
;   257     0786  1 !
;   258     0787  1 !--
;   259     0788  1
;   260     0789  2 BEGIN
;   261     0790  2
;   262     0791  2 LOCAL
;   263     0792  2         MOUNT_IOSB      : VECTOR [2],
;   264     0793  2         ALLDEVNAM_BUF   : VECTOR [NAMEBUF_LEN, BYTE]
;   265     0794  2                           INITIAL (BYTE ('MOU$', REP NAMEBUF_LEN-4 OF (' '))),
;   266     0795  2         ALLDEVNAM_DESC  : VECTOR [2] INITIAL (0, ALLDEVNAM_BUF),
;   267     0796  2         DEVICE_ITMLST   : BBLOCK [(2 * 12) + 4] INITIAL
;   268     0797  2                           (
;   269     0798  2                           !
;   270     0799  2                           ! 1st item - device name
;   271     0800  2                           !
;   272     0801  2                             (WORD (20),             ! Length of dev name buffer
;   273     0802  2                              WORD (DVI$_DEVNAM),    ! Item code for device name
;   274     0803  2                              LONG (PHYS_BUFFER),    ! Dev name buffer address
;   275     0804  2                              LONG (PHYS_NAME),      ! Returned dev name length
;   276     0805  2                           !
;   277     0806  2                           ! 2nd item - allocation class name
;   278     0807  2                           !
;   279     0808  2                              WORD (NAMEBUF_LEN - 4),
;   280     0809  2                              WORD (DVI$_ALLDEVNAM),
;   281     0810  2                              LONG (ALLDEVNAM_BUF + 4),
;   282     0811  2                              LONG (ALLDEVNAM_DESC),
;   283     0812  2                           !
```

```
;  284     0813  2                          ! End of list.
;  285     0814  2                          !
;  286     0815  2                            LONG (0)),
;  287     0816  2          STATUS,                          ! system service status
;  288     0817  2          P;                               ! pointer into characteristics block
;  289     0818  2
;  290     0819  2  EXTERNAL
;  291     0820  2          EXE$GL_STATIC_FLAGS : ADDRESSING_MODE (GENERAL) BITVECTOR [32],
;  292     0821  2          DEV_CTX             : BBLOCK FIELD (DC);
;  293     0822  2                                           ! device value block context fields
;  294     0823  2
;  295     0824  2  EXTERNAL LITERAL
;  296     0825  2          EXE$V_REBLDSYSD;
;  297     0826  2
;  298     0827  2  EXTERNAL ROUTINE
;  299     0828  2          READ_HOMEBLOCK,                  ! read disk home block
;  300     0829  2          MOUNT_DISK1,                     ! mount disk, level 1
;  301     0830  2          MOUNT_DISK2,                     ! mount disk, level 2
;  302     0831  2          STAND_ALONE_REBUILD,             ! rebuild disk bitmaps and quota file
;  303     0832  2          GET_DEVICE_CONTEXT;              ! get device lock value block context
;  304     0833  2
;  305     0834  2
;  306     0835  2  ! Enable the condition handler.
;  307     0836  2  !
;  308     0837  2
;  309     0838  2  ENABLE MAIN_HANDLER;
;  310     0839  2
;  311     0840  2  CALLERS_ACMOD = PSL$C_SUPER;             ! used for logical name access mode
;  312     0841  2  CHANNEL = .SYS_CHANNEL;
;  313     0842  2
;  314     0843  2  !
;  315     0844  2  ! Take out a lock to synchronize all mounts of this device in a cluster.
;  316     0845  2  ! First we must construct the lock resource name (use the allocation class
;  317     0846  2  ! name returned by $GETDVI).
;  318     0847  2  !
;  319     0848  2
;  320   P 0849  2  STATUS = $GETDVIW (CHAN   = .CHANNEL,
;  321   P 0850  2                     ITMLST = DEVICE_ITMLST,
;  322   P 0851  2                     EFN    = MOUNT_EFN,
;  323     0852  2                     IOSB   = MOUNT_IOSB);
;  324     0853  2  IF NOT .STATUS THEN ERR_EXIT (.STATUS);
;  325     0854  2  ALLDEVNAM_DESC[0] = .ALLDEVNAM_DESC[0] + 4;
;  326     0855  2
;  327   P 0856  2  STATUS = $ENQW (LKMODE = LCK$K_EXMODE,
;  328   P 0857  2                   LKSB   = LOCK_STATUS,
;  329   P 0858  2                   FLAGS  = LCK$M_SYSTEM,
;  330   P 0859  2                   RESNAM = ALLDEVNAM_DESC,
;  331   P 0860  2                   EFN    = MOUNT_EFN,
;  332     0861  2                   ACMODE = PSL$C_EXEC);
;  333     0862  2  IF NOT .STATUS THEN ERR_EXIT (.STATUS);
;  334     0863  2  !
;  335     0864  2  ! Get the device characteristics and do device type validation: Make sure
;  336     0865  2  ! the device is mountable at all, and check that the mount qualifiers are
;  337     0866  2  ! consistent with the device type. A mismatch between primary and secondary
;  338     0867  2  ! device characteristics indicates a spooled device or something else strange.
;  339     0868  2  ! Reject such.
;  340     0869  2  !
```

```
;  341          0870  2
;  342          0871  2 $GETCHN (CHAN = .CHANNEL, PRIBUF = DEVCHAR_DESC, SCDBUF = DEVCHAR_DESC2);
;  343          0872  2
;  344          0873  2 IF CH$NEQ (DIB$K_LENGTH, DEVICE_CHAR, DIB$K_LENGTH, DEVICE_CHAR2, 0)
;  345          0874  2 OR NOT .DEVICE_CHAR[DEV$V_FOD]
;  346          0875  2 THEN ERR_EXIT (SS$_NOTFILEDEV);
;  347          0876  2
;  348          0877  2 IF NOT .DEVICE_CHAR[DEV$V_AVL]
;  349          0878  2 THEN ERR_EXIT (SS$_DEVOFFLINE);
;  350          0879  2
;  351          0880  2 IF .DEVICE_CHAR[DEV$V_MNT]
;  352          0881  2 THEN ERR_EXIT (SS$_DEVMOUNT);
;  353          0882  2
;  354          0883  2 IF .DEVICE_CHAR[DEV$V_SQD]
;  355          0884  2 THEN ERR_EXIT (SS$_NOTFILEDEV);
;  356          0885  2
;  357          0886  2 !
;  358          0887  2 ! The following is for reference only. The physical device name is now
;  359          0888  2 ! obtained with the $GETDVIW system service, rather than formatting device
;  360          0889  2 ! name and the unit number.
;  361          0890  2 !
;  362          0891  2 ! Construct the physical device name by appending the ascii unit number to
;  363          0892  2 ! the device name in the device characteristics.
;  364          0893  2 !
;  365          0894  2 !
;  366          0895  2 !PHYS_NAME[0] = 20;
;  367          0896  2 !PHYS_NAME[1] = PHYS_BUFFER;
;  368          0897  2 !$FAO (
;  369          0898  2 !       DESCRIPTOR ('_!AC!UW:'),
;  370          0899  2 !       PHYS_NAME[0],
;  371          0900  2 !       PHYS_NAME[0],
;  372          0901  2 !       DEVICE_CHAR + .DEVICE_CHAR[DIB$W_DEVNAMOFF],
;  373          0902  2 !       .DEVICE_CHAR[DIB$W_UNIT]
;  374          0903  2 !       );
;  375          0904  2
;  376          0905  2 ! Now attempt to read the home block or volume header label, as appropriate
;  377          0906  2 ! for the device type.
;  378          0907  2 !
;  379          0908  2
;  380          0909  2 STATUS = READ_HOMEBLOCK (LABEL_STRING[0]);
;  381          0910  2
;  382          0911  2 MOUNT_OPTIONS[OPT_IS_FILES11] = 1;      ! assume volume is Files-11
;  383          0912  2 IF NOT .STATUS
;  384          0913  2 AND .STATUS NEQ SS$_INCVOLLABEL
;  385          0914  2 THEN ERR_EXIT (.STATUS);
;  386          0915  2
;  387          0916  3 IF NOT (STATUS = KERNEL_CALL (GET_DEVICE_CONTEXT))
;  388          0917  2 THEN ERR_EXIT (.STATUS);
;  389          0918  2
;  390          0919  2 IF .MOUNT_OPTIONS[OPT_IS_FILES11B]
;  391          0920  2 THEN MOUNT_DISK2 ()
;  392          0921  2 ELSE MOUNT_DISK1 ();
;  393          0922  2
;  394          0923  2 ! Rebuild the volume if it was improperly dismounted.
;  395          0924  2 !
;  396          0925  2
;  397          0926  2 IF .CLEANUP_FLAGS[CLF_REBUILD]
```

```
;  398          0927  2      AND .EXE$GL_STATIC_FLAGS [EXE$V_REBLDSYSD]
;  399          0928  2 THEN
;  400          0929  3      BEGIN
;  401          0930  3      ERR_MESSAGE (MOUN$_REBUILD);
;  402          0931  3      STAND_ALONE_REBUILD (.CHANNEL);
;  403          0932  2      END;
;  404          0933  2
;  405          0934  2 IF .LOCK_STATUS [1] NEQ 0
;  406          0935  2 THEN
;  407          0936  3      BEGIN
;  408          0937  3      $DEQ (LKID = .LOCK_STATUS [1]);
;  409          0938  3      LOCK_STATUS [1] = 0;
;  410          0939  2      END;
;  411          0940  2
;  412          0941  2 1
;  413          0942  1 END;                                    ! end of routine MOUNT_COMMAND

                                                        .TITLE  SYSMOU
                                                        .IDENT  \V04-000\

                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

                4B 53 49 44 4D 45 54 53 59 53  00000 P.AAB:  .ASCII  \SYSTEMDISK\                ;
                                               0000A         .BLKB   2                          ;
                                     0000000A  0000C P.AAA:  .LONG   10                         ;
                                     00000000' 00010         .ADDRESS P.AAB                     ;
                                  24 55 4F 4D  00014 P.AAC:  .ASCII  \MOU$\                     ;
                                            20 00018        .ASCII  \ \                        ;
                                            20 00019        .ASCII  \ \                        ;
                                            20 0001A        .ASCII  \ \                        ;
                                            20 0001B        .ASCII  \ \                        ;
                                            20 0001C        .ASCII  \ \                        ;
                                            20 0001D        .ASCII  \ \                        ;
                                            20 0001E        .ASCII  \ \                        ;
                                            20 0001F        .ASCII  \ \                        ;
                                            20 00020        .ASCII  \ \                        ;
                                            20 00021        .ASCII  \ \                        ;
                                            20 00022        .ASCII  \ \                        ;
                                            20 00023        .ASCII  \ \                        ;
                                            20 00024        .ASCII  \ \                        ;
                                            20 00025        .ASCII  \ \                        ;
                                            20 00026        .ASCII  \ \                        ;
                                            20 00027        .ASCII  \ \                        ;
                                            20 00028        .ASCII  \ \                        ;
                                            20 00029        .ASCII  \ \                        ;
                                            20 0002A        .ASCII  \ \                        ;
                                            20 0002B        .ASCII  \ \                        ;
                                            20 0002C        .ASCII  \ \                        ;
                                            20 0002D        .ASCII  \ \                        ;
                                            20 0002E        .ASCII  \ \                        ;
                                            20 0002F        .ASCII  \ \                        ;
                                            20 00030        .ASCII  \ \                        ;
                                            20 00031        .ASCII  \ \                        ;
                                            20 00032        .ASCII  \ \                        ;
                                            20 00033        .ASCII  \ \                        ;
                                     0014   00034 P.AAD:    .WORD   20                         ;
```

```
                0020  00036          .WORD   32                                      ;
            00000000' 00038          .ADDRESS PHYS_BUFFER                            ;
            00000000' 0003C          .ADDRESS PHYS_NAME                              ;
                001C  00040          .WORD   28                                      ;
                00EC  00042          .WORD   236                                     ;
            00000000  00044          .LONG   0                                       ;
            00000000  00048          .LONG   0                                       ;
            00000000  0004C          .LONG   0                                       ;

                                     .PSECT  $GLOBAL$,NOEXE,2

                      00000 STORED_CONTEXT::
                                     .BLKB   4
            00000000  00004 MOUNT_FLAGS::
                                     .LONG   0                                       ;
                      00008 LOCK_STATUS::
                                     .BLKB   8
                      00010 DEVICE_INDEX::
                                     .BLKB   4
                      00014 CALLERS_ACMOD::
                                     .BLKB   4
                      00018 CLEANUP_FLAGS::
                                     .BLKB   4
                      0001C CHANNEL::
                                     .BLKB   4
                      00020 MAILBOX_CHANNEL::
                                     .BLKB   4
                      00024 PHYS_BUFFER::
                                     .BLKB   20
            00000000  00038 PHYS_NAME::
                                     .LONG   0
            00000000' 0003C          .ADDRESS PHYS_BUFFER                            ;
                      00040 LOG_BUFFER::
                                     .BLKB   20
                      00054 HOME_BLOCK::
                                     .BLKB   512
                      00254 DEVICE_CHAR::
                                     .BLKB   116
                      002C8 DEVICE_CHAR2::
                                     .BLKB   116
                      0033C HOMEBLOCK_LBN::
                                     .BLKB   4
                      00340 HEADER_LBN::
                                     .BLKB   4
                      00344 DEV_INDEX::
                                     .BLKB   4
                      00348 USER_STATUS::
                                     .BLKB   8
                      00350 CURRENT_RVN::
                                     .BLKB   4
                      00354 CURRENT_VCB::
                                     .BLKB   4
                      00358 REAL_RVT::
                                     .BLKB   4
                      0035C REAL_VCB::
                                     .BLKB   4
                      00360 REAL_FCB::
```

```
                                00364 REAL_WCB::        .BLKB   4
                                00368 REAL_VCA::        .BLKB   4
                                0036C REAL_AQB::        .BLKB   4
                                00370 LOG_ENTRY::       .BLKB   4
                                00374 MTL_ENTRY::       .BLKB   4
                                00378 SLOG_ENTRY::      .BLKB   4
                                0037C SMTL_ENTRY::      .BLKB   4
                    00000074    00380 DEVCHAR_DESC::    .LONG   116                             ;
                    00000000'   00384                   .ADDRESS DEVICE_CHAR                    ;
                    00000074    00388 DEVCHAR_DESC2::   .LONG   116                             ;
                    00000000'   0038C                   .ADDRESS DEVICE_CHAR2                   ;
                00424000    C0408300    00390 MOUNT_OPTIONS::   .LONG   -1069513984, 4341760    ;
                    00000000    00398 PROTECTION::      .LONG   0                               ;
                    00000000    0039C OWNER_UIC::       .LONG   0                               ;
                    00000000    003A0 USER_UIC::        .LONG   0                               ;
                    00000000    003A4 EXTENSION::       .LONG   0                               ;
                    00000000    003A8 WINDOW::.LONG   0                                         ;
                    00000000    003AC ACCESSED::        .LONG   0                               ;
                    00000000    003B0 BLOCKSIZE::       .LONG   0                               ;
                    00000000    003B4 EXT_CACHE::       .LONG   0                               ;
                    00000000    003B8 FID_CACHE::       .LONG   0                               ;
                    00000000    003BC QUO_CACHE::       .LONG   0                               ;
                    00000000    003C0 EXT_LIMIT::       .LONG   0                               ;
                    00000001    003C4 DEVICE_COUNT::    .LONG   1                               ;
                    00000001    003C8 LABEL_COUNT::     .LONG   1                               ;
                                003CC LOG_NAME::        .BLKB   8
                                003D4 STRUCT_NAME::     .BLKB   8
                                003DC VID_STRING::      .BLKB   8
                                003E4 COMMENT_STRING::  .BLKB   8
                                003EC ACP_STRING::
```

```
                                        .BLKB   8
003F4                           DRIVE_COUNT::
                                        .BLKB   4
003F8                           PARSE_IMP_END::
                                        .BLKB   0

                                LABEL_STRING==      P.AAA
                                        .EXTRN  EXE$GL_STATIC_FLAGS
                                        .EXTRN  DEV_CTR, EXE$V_REBLDSYSD
                                        .EXTRN  READ_HOMEBLOCK, MOUNT_DISK1
                                        .EXTRN  MOUNT_DISK2, STAND_ALONE_REBUILD
                                        .EXTRN  GET_DEVICE_CONTEXT
                                        .EXTRN  SYS$GETDVIW, SYS$ENQW
                                        .EXTRN  SYS$GETCHN, SYS$CMKRNL
                                        .EXTRN  SYS$DEQ

                                        .PSECT  $CODE$,NOWRT,2

                                00FC 00000      .ENTRY  MOUNT_SYSTEM, Save R2,R3,R4,R5,R6,R7    ; 0756
                    57 00000000G  00    9E 00002    MOVAB   LIB$STOP, R7                        ;
                    56      0000' CF    9E 00009    MOVAB   DEVICE_CHAR, R6                     ;
                    5E        B4  AE    9E 0000E    MOVAB   -76(SP), SP                         ;
            24  AE      0000' CF        28 00012    MOVC3   #32, P.AAC, ALLDEVNAM_BUF           ; 0794
                      1C  AE    D4 00019    CLRL    ALLDEVNAM_DESC                              ;
                    20  AE  24  AE    9E 0001C    MOVAB   ALLDEVNAM_BUF, ALLDEVNAM_DESC+4     ;
                6E      0000' CF        1C 28 00021 MOVC3   #28, P.AAD, DEVICE_ITMLST           ; 0815
                    10  AE  28  AE    9E 00027    MOVAB   ALLDEVNAM_BUF+4, DEVICE_ITMLST+16   ; 0810
                    14  AE  1C  AE    9E 0002C    MOVAB   ALLDEVNAM_DESC, DEVICE_ITMLST+20    ; 0794
                        6D    013D CF   DE 00031  MOVAL   14$, (FP)                           ; 0815
                    FDC0  C6        02  D0 00036    MOVL    #2, CALLERS_ACMOD                   ; 0840
                    FDC8  C6    04  AC  D0 0003B    MOVL    SYS_CHANNEL, CHANNEL                ; 0841
                                7E  7C 00041    CLRQ    -(SP)                               ; 0852
                                7E  D4 00043    CLRL    -(SP)                               ;
                                50  AE  9F 00045    PUSHAB  MOUNT_IOSB                      ;
                                10  AE  9F 00048    PUSHAB  DEVICE_ITMLST                   ;
                                7E  D4 0004B    CLRL    -(SP)                               ;
                            FDC8    C6  DD 0004D    PUSHL   CHANNEL                         ;
                                1A  DD 00051    PUSHL   #26                                 ;
            00000000G   00          08  FB 00053   CALLS   #8, SYS$GETDVIW                  ;
                        54          50  D0 0005A    MOVL    R0, STATUS                      ;
                        05          54  E8 0005D    BLBS    STATUS, 1$                      ; 0853
                                    54  DD 00060    PUSHL   STATUS                          ;
                        67          01  FB 00062    CALLS   #1, LIB$STOP                    ;
                    1C  AE          04  C0 00065 1$:    ADDL2   #4, ALLDEVNAM_DESC          ; 0854
                        7E          01  7D 00069    MOVQ    #1, -(SP)                       ; 0861
                                    7E  7C 0006C    CLRQ    -(SP)                           ;
                                    7E  7C 0006E    CLRQ    -(SP)                           ;
                                34  AE  9F 00070    PUSHAB  ALLDEVNAM_DESC                  ;
                                    10  DD 00073    PUSHL   #16                             ;
                            FDB4    C6  9F 00075    PUSHAB  LOCK_STATUS                     ;
                                    05  DD 00079    PUSHL   #5                              ;
                                    1A  DD 0007B    PUSHL   #26                             ;
            00000000G   00          0B  FB 0007D    CALLS   #11, SYS$ENQW                   ;
                        54          50  D0 00084    MOVL    R0, STATUS                      ;
                        05          54  E8 00087    BLBS    STATUS, 2$                      ; 0862
                                    54  DD 0008A    PUSHL   STATUS                          ;
                        67          01  FB 0008C    CALLS   #1, LIB$STOP                    ;
```

```
                                0134  C6  9F 0008F 2$:    PUSHAB  DEVCHAR_DESC2                                  ; 0871
                                      7E  D4 00093        CLRL    -(SP)                                          ;
                                012C  C6  9F 00095        PUSHAB  DEVCHAR_DESC                                   ;
                                      7E  D4 00099        CLRL    -(SP)                                          ;
                                FDC8  C6  DD 0009B        PUSHL   CHANNEL                                        ;
                00000000G       00    05  FB 0009F        CALLS   #5, SYS$GETCHN                                 ;
74  A6                          66    0074  8F  29 000A6        CMPC3   #116, DEVICE_CHAR, DEVICE_CHAR2        ; 0873
                                      05  12 000AD        BNEQ    3$                                             ;
    08      01      A6              06  E0 000AF        BBS     #6, DEVICE_CHAR+1, 4$                          ; 0874
                    7E          01CC  8F  3C 000B4 3$:     MOVZWL  #460, -(SP)                                ; 0875
                    67              01  FB 000B9        CALLS   #1, LIB$STOP                                   ;
    07      02      A6              02  E0 000BC 4$:     BBS     #2, DEVICE_CHAR+2, 5$                          ; 0877
                    7E           84 8F  9A 000C1        MOVZBL  #132, -(SP)                                    ; 0878
                    67              01  FB 000C5        CALLS   #1, LIB$STOP                                   ;
    07      02      A6              03  E1 000C8 5$:     BBC     #3, DEVICE_CHAR+2, 6$                          ; 0880
                    7E           6C 8F  9A 000CD        MOVZBL  #108, -(SP)                                    ; 0881
                    67              01  FB 000D1        CALLS   #1, LIB$STOP                                   ;
    08              66              05  E1 000D4 6$:     BBC     #5, DEVICE_CHAR, 7$                            ; 0883
                    7E          01CC  8F  3C 000D8        MOVZWL  #460, -(SP)                                    ; 0884
                    67              01  FB 000DD        CALLS   #1, LIB$STOP                                   ;
                            0000'   CF  9F 000E0 7$:     PUSHAB  LABEL_STRING                                   ; 0909
                    0000G   CF              01  FB 000E4        CALLS   #1, READ_HOMEBLOCK                     ;
                                            54  D0 000E9        MOVL    R0, STATUS                             ;
                    0140    C6              02  88 000EC        BISB2   #2, MOUNT_OPTIONS+4                    ; 0911
                            0E              54  E8 000F1        BLBS    STATUS, 8$                             ; 0912
                0000010C    8F              54  D1 000F4        CMPL    STATUS, #268                           ; 0913
                                            05  13 000FB        BEQL    8$                                     ;
                                            54  DD 000FD        PUSHL   STATUS                                 ; 0914
                            67              01  FB 000FF        CALLS   #1, LIB$STOP                           ;
                                            7E  D4 00102 8$:     CLRL    -(SP)                                  ; 0916
                                            5E  DD 00104        PUSHL   SP                                     ;
                                    0000G   CF  9F 00106        PUSHAB  GET_DEVICE_CONTEXT                     ;
                00000000G       9F              03  FB 0010A        CALLS   #3, @#SYS$CMKRNL                       ;
                                54              50  D0 00111        MOVL    R0, STATUS                             ;
                                05              54  E8 00114        BLBS    STATUS, 9$                             ;
                                                54  DD 00117        PUSHL   STATUS                                 ; 0917
                                67              01  FB 00119        CALLS   #1, LIB$STOP                           ;
07      0140    C6                      02  E1 0011C 9$:     BBC     #2, MOUNT_OPTIONS+4, 10$                       ; 0919
        0000G   CF                      00  FB 00122        CALLS   #0, MOUNT_DISK2                                ; 0920
                                        05  11 00127        BRB     11$                                            ;
        0000G   CF                      00  FB 00129 10$:     CALLS   #0, MOUNT_DISK1                            ; 0921
22      FDC5    C6                      01  E1 0012E 11$:     BBC     #1, CLEANUP_FLAGS+1, 12$                   ; 0926
16 00000000G    00  00000000G           8F  E1 00134        BBC     #EXE$V_REBLDSYSD, EXE$GL_STATIC_FLAGS, 12$ ; 0927
                    0072A01B            8F  DD 00140        PUSHL   #7512091                                   ; 0930
    00000000G       00                  01  FB 00146        CALLS   #1, LIB$SIGNAL                             ;
                            FDC8    C6  DD 0014D        PUSHL   CHANNEL                                        ; 0931
        0000G   CF                      01  FB 00151        CALLS   #1, STAND_ALONE_REBUILD                     ;
                50          FDB8    C6  D0 00156 12$:     MOVL    LOCK_STATUS+4, R0                          ; 0934
                                        11  13 0015B        BEQL    13$                                        ;
                                        7E  7C 0015D        CLRQ    -(SP)                                      ; 0937
                                        7E  D4 0015F        CLRL    -(SP)                                      ;
                                        50  DD 00161        PUSHL   R0                                         ;
    00000000G       00                  04  FB 00163        CALLS   #4, SYS$DEQ                                ;
                            FDB8    C6  D4 0016A        CLRL    LOCK_STATUS+4                                  ; 0938
                50                  01  D0 0016E 13$:     MOVL    #1, R0                                     ; 0942
                                        04  00171        RET                                                    ;
                                    0000  00172 14$:     .WORD   Save nothing                                   ; 0815
```

```
                                 7E  D4 00174          CLRL    -(SP)                                ;
                                 5E  DD 00176          PUSHL   SP                                   ;
                          7E     04  AC 7D 00178       MOVQ    4(AP), -(SP)                         ;
                0000V     CF         03  FB 0017C       CALLS   #3, MAIN_HANDLER                     ;
                                         04 00181       RET                                          ;

; Routine Size:  386 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  415     0943  1 ROUTINE MAIN_HANDLER (SIGNAL, MECHANISM) =
;  416     0944  1
;  417     0945  1 !++
;  418     0946  1 !
;  419     0947  1 ! FUNCTIONAL DESCRIPTION:
;  420     0948  1 !
;  421     0949  1 !       This routine is the main level condition handler for the MOUNT
;  422     0950  1 !       utility. It undoes anything that MOUNT has done so far and then
;  423     0951  1 !       unwinds and returns the condition code as status to MOUNT's
;  424     0952  1 !       caller (i.e., the CLI).
;  425     0953  1 !
;  426     0954  1 !
;  427     0955  1 ! CALLING SEQUENCE:
;  428     0956  1 !       MAIN_HANDLER (ARG1, ARG2)
;  429     0957  1 !
;  430     0958  1 ! INPUT PARAMETERS:
;  431     0959  1 !       ARG1: address of signal array
;  432     0960  1 !       ARG2: address of mechanism array
;  433     0961  1 !
;  434     0962  1 ! IMPLICIT INPUTS:
;  435     0963  1 !       NONE
;  436     0964  1 !
;  437     0965  1 ! OUTPUT PARAMETERS:
;  438     0966  1 !       NONE
;  439     0967  1 !
;  440     0968  1 ! IMPLICIT OUTPUTS:
;  441     0969  1 !       NONE
;  442     0970  1 !
;  443     0971  1 ! ROUTINE VALUE:
;  444     0972  1 !       SS$_CONTINUE
;  445     0973  1 !
;  446     0974  1 ! SIDE EFFECTS:
;  447     0975  1 !       stack unwound, control passed to CLI
;  448     0976  1 !
;  449     0977  1 !--
;  450     0978  1
;  451     0979  2 BEGIN
;  452     0980  2
;  453     0981  2 MAP
;  454     0982  2         SIGNAL          : REF BBLOCK,   ! signal array
;  455     0983  2         MECHANISM       : REF BBLOCK;   ! mechanism array
;  456     0984  2
;  457     0985  2 EXTERNAL
;  458     0986  2         USER_STATUS     : VECTOR;       ! status return of some routines
;  459     0987  2
;  460     0988  2
;  461     0989  2 ! Do cleanup as indicated by the status flags.
;  462     0990  2 ! Cause the condition code to be returned in R0 as the main routine value.
;  463     0991  2 !
;  464     0992  2
;  465     0993  2 IF .SIGNAL[CHF$L_SIG_NAME] NEQ SS$_UNWIND
;  466     0994  2 AND .BBLOCK [SIGNAL[CHF$L_SIG_NAME], STS$V_SEVERITY] EQL STS$K_SEVERE
;  467     0995  2 THEN
;  468     0996  3     BEGIN
;  469     0997  3
;  470     0998  3     IF .SIGNAL[CHF$L_SIG_NAME] NEQ 0
;  471     0999  3     THEN MECHANISM[CHF$L_MCH_SAVR0] = .SIGNAL[CHF$L_SIG_NAME]
```

```
;  472          1000  3     ELSE MECHANISM[CHF$L_MCH_SAVR0] = .USER_STATUS[0];
;  473          1001  3     IF .LOCK_STATUS [1] NEQ 0
;  474          1002  3     THEN
;  475          1003  4         BEGIN
;  476          1004  4         $DEQ (LKID = .LOCK_STATUS [1]);
;  477          1005  4         LOCK_STATUS [1] = 0;
;  478          1006  3         END;
;  479          1007  3     $UNWIND ();
;  480          1008  2     END;
;  481          1009  2
;  482          1010  2 RETURN SS$_CONTINUE;                    ! continue from success signals
;  483          1011  2
;  484          1012  1 END;                                    ! end of routine MAIN_HANDLER


                                                        .EXTRN  SYS$UNWIND

                                              0000 00000 MAIN_HANDLER:
                                                        .WORD   Save nothing                    ; 0943
                                  51      04  AC  D0 00002       MOVL    SIGNAL, R1              ; 0993
                       00000920   8F      04  A1  D1 00006       CMPL    4(R1), #2336            ;
                                              3F  13 0000E       BEQL    4$                      ;
        04      04  A1            03          00  ED 00010       CMPZV   #0, #3, 4(R1), #4       ; 0994
                                              37  12 00016       BNEQ    4$                      ;
                                  50      08  AC  D0 00018       MOVL    MECHANISM, R0           ; 0999
                                      04  A1  D5 0001C           TSTL    4(R1)                   ; 0998
                                              07  13 0001F       BEQL    1$                      ;
                                  0C  A0      04  A1  D0 00021   MOVL    4(R1), 12(R0)           ; 0999
                                              06  11 00026       BRB     2$                      ;
                                  0C  A0  0000G   CF  D0 00028 1$:  MOVL  USER_STATUS, 12(R0)     ; 1000
                                  50  0000'   CF  D0 0002E 2$:  MOVL    LOCK_STATUS+4, R0       ; 1001
                                              11  13 00033       BEQL    3$                      ;
                                              7E  7C 00035       CLRQ    -(SP)                   ; 1004
                                              7E  D4 00037       CLRL    -(SP)                   ;
                                              50  DD 00039       PUSHL   R0                      ;
                           00000000G  00      04  FB 0003B       CALLS   #4, SYS$DEQ             ;
                                      0000'   CF  D4 00042       CLRL    LOCK_STATUS+4           ; 1005
                                              7E  7C 00046 3$:  CLRQ    -(SP)                   ; 1007
                           00000000G  00          02  FB 00048   CALLS   #2, SYS$UNWIND          ;
                                  50          01  D0 0004F 4$:  MOVL    #1, R0                  ; 1010
                                              04  00052         RET                             ; 1012

; Routine Size:  83 bytes,    Routine Base:  $CODE$ + 0182

;  485          1013  1
;  486          1014  1 END
;  487          1015  0 ELUDOM


                                                        .EXTRN  LIB$SIGNAL, LIB$STOP

;                                     PSECT SUMMARY
;
```

```
;       Name                    Bytes                   Attributes
;
;  $GLOBAL$                     1016  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                         80  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                        469  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)



;                           Library Statistics
;
;                                    -------- Symbols --------      Pages       Processing
;       File                         Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1      18619        37         0      1000          00:01.9




;                                   COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:SYSMOU/OBJ=OBJ$:SYSMOU MSRC$:SYSMOU/UPDATE=(ENH$:SYSMOU)

; Size:         469 code + 1096 data bytes
; Run Time:         00:18.5
; Elapsed Time:     00:36.7
; Lines/CPU Min:     3293
; Lexemes/CPU-Min: 30395
; Memory Used:  169 pages
; Compilation Complete
```

0390 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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SYSLOA780
MAP

SYSLOA790
MAP

SCSLOA
MAP

SYSMOU
LIS

SYSLOAUV1
MAP

SYSLOAWS1
MAP

CSP
MAP

790DEF
MDL

SYSLOA

CLUSTRLOA
MAP

SYSLOA730
MAP

SYSLOA750
MAP